

Sudip Sengupta

List of Publications by Year in descending order

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47
papers

453
citations

687363

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docs citations

47
times ranked

164
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron bounce-cyclotron resonance in capacitive discharges at low magnetic fields. <i>Physical Review Research</i> , 2022, 4, .	3.6	20
2	Wave breaking limit in arbitrary mass ratio warm plasmas. <i>Contributions To Plasma Physics</i> , 2022, 62, .	1.1	1
3	Effect of gravity-fed drip irrigation and nitrogen management on flowering quality, yield, water and nutrient dynamics of gladiolus in an Indian inceptisol. <i>Journal of Plant Nutrition</i> , 2022, 45, 2049-2067.	1.9	6
4	Investigating the effects of electron bounce-cyclotron resonance on plasma dynamics in capacitive discharges operated in the presence of a weak transverse magnetic field. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	14
5	Assessment of the Potassium Supplying Capacity of Coastal Entisols and Inceptisols under Intensive Cropping and Fertilization. <i>Communications in Soil Science and Plant Analysis</i> , 2022, 53, 2878-2891.	1.4	3
6	Assessing Methods for Estimating Potentially Mineralisable Nitrogen Under Organic Production System in New Alluvial Soils of Lower Gangetic Plain. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 1030-1040.	3.4	6
7	Characterization and risk assessment of arsenic contamination in soil-plant (vegetable) system and its mitigation through water harvesting and organic amendment. <i>Environmental Geochemistry and Health</i> , 2021, 43, 2819-2834.	3.4	19
8	Excitation of plasma wakefields by intense ultra-relativistic proton beam. <i>Contributions To Plasma Physics</i> , 2021, 61, e202000215.	1.1	0
9	Rhizobium Leguminosarum: A Model Arsenic Resistant, Arsenite Oxidizing Bacterium Possessing Plant Growth Promoting Attributes. <i>Current World Environment Journal</i> , 2021, 16, 84-93.	0.5	2
10	Investigation of arsenic-resistant, arsenite-oxidizing bacteria for plant growth promoting traits isolated from arsenic contaminated soils. <i>Archives of Microbiology</i> , 2021, 203, 4677-4692.	2.2	14
11	Exact solution of Hartemann-Luhmann equation of motion for a charged particle interacting with an intense electromagnetic wave/pulse. <i>European Physical Journal: Special Topics</i> , 2021, 230, 4165-4174.	2.6	3
12	Effect of ion motion on breaking of longitudinal relativistically strong plasma waves: Khachatryan mode revisited. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	2
13	Excitation of electrostatic standing wave in the superposition of two counter propagating relativistic whistler waves. <i>Physica Scripta</i> , 2021, 96, 125620.	2.5	0
14	Deficit irrigation and organic amendments can reduce dietary arsenic risk from rice: Introducing machine learning-based prediction models from field data. <i>Agriculture, Ecosystems and Environment</i> , 2021, 319, 107516.	5.3	42
15	Wavebreaking amplitudes in warm, inhomogeneous plasmas revisited. <i>Physics of Plasmas</i> , 2021, 28, 012105.	1.9	2
16	Predicting the response of soil potassium to broccoli (<i>Brassica oleracea</i> var. <i>italica</i>) in a Gangetic Inceptisol of West Bengal, India through suitable chemical extractants. <i>Journal of Plant Nutrition</i> , 2021, 44, 931-945.	1.9	4
17	Stationary Langmuir structures in a relativistic current carrying cold plasma. <i>Physics of Plasmas</i> , 2020, 27, 022118.	1.9	0
18	Effect of transverse beam size on the wakefields and driver beam dynamics in plasma wakefield acceleration schemes. <i>AIP Advances</i> , 2020, 10, .	1.3	4

#	ARTICLE	IF	CITATIONS
19	Phase-mixing of large amplitude electron oscillations in a cold inhomogeneous plasma. Physics of Plasmas, 2018, 25, .	1.9	12
20	Nonlinear dynamics of relativistically intense cylindrical and spherical plasma waves. Physics of Plasmas, 2018, 25, 092106.	1.9	0
21	Plasma wakefield excitation in a cold magnetized plasma for particle acceleration. Physics of Plasmas, 2017, 24, 052111.	1.9	3
22	Investigation of diocotron modes in toroidally trapped electron plasmas using non-destructive method. Physics of Plasmas, 2017, 24, 102132.	1.9	7
23	Particle-in-cell simulation of Buneman instability beyond quasilinear saturation. Physics of Plasmas, 2017, 24, .	1.9	8
24	10.1063/1.5006463.1. , 2017, , .		0
25	One dimensional PIC simulation of relativistic Buneman instability. Physics of Plasmas, 2016, 23, 102110.	1.9	4
26	Relativistic electron beam driven longitudinal wake-wave breaking in a cold plasma. Physics of Plasmas, 2016, 23, 083113.	1.9	12
27	Phase mixing of relativistically intense longitudinal wave packets in a cold plasma. Physics of Plasmas, 2016, 23, 092112.	1.9	5
28	Relativistic wave-breaking limit of electrostatic waves in cold electron-positron-ion plasmas. European Physical Journal D, 2016, 70, 1.	1.3	9
29	Radiation reaction effect on laser driven auto-resonant particle acceleration. Physics of Plasmas, 2015, 22, 123102.	1.9	4
30	Fluid simulation of relativistic electron beam driven wakefield in a cold plasma. Physics of Plasmas, 2015, 22, .	1.9	11
31	Investigation of shock-shock interaction and Mach reflection in laterally colliding laser-blow-off plasmas. Physics of Plasmas, 2015, 22, .	1.9	14
32	Particle-in-cell simulation of large amplitude ion-acoustic solitons. Physics of Plasmas, 2015, 22, .	1.9	20
33	Analytical estimate of phase mixing time of longitudinal Akhiezer-Polovin waves. Physics of Plasmas, 2014, 21, 112104.	1.9	7
34	Breaking of relativistically intense longitudinal space charge waves: A description using Dawson sheet model. , 2014, , .		4
35	Propagation dynamics of laterally colliding plasma plumes in laser-blow-off of thin film. Physics of Plasmas, 2014, 21, .	1.9	16
36	Effect of polarization and focusing on laser pulse driven auto-resonant particle acceleration. Physics of Plasmas, 2014, 21, 043102.	1.9	3

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37	Residual Bernstein-Greene-Kruskal-like waves after one-dimensional electron wave breaking in a cold plasma. <i>Physical Review E</i> , 2012, 86, 016410.	2.1	9
38	Breaking of upper hybrid oscillations in the presence of an inhomogeneous magnetic field. <i>Physical Review E</i> , 2012, 86, 016408.	2.1	26
39	Wave breaking phenomenon of lower-hybrid oscillations induced by a background inhomogeneous magnetic field. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	10
40	Breaking of Longitudinal Akhiezer-Polovin Waves. <i>Physical Review Letters</i> , 2012, 108, 125005.	7.8	33
41	Bernstein-Greene-Kruskal waves in relativistic cold plasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	8
42	Spatio-temporal evolution and breaking of double layers: A description using Lagrangian hydrodynamics. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	3
43	Exact analysis of particle dynamics in combined field of finite duration laser pulse and static axial magnetic field. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	4
44	Phase mixing/wave breaking studies of large amplitude oscillations in a cold homogeneous unmagnetized plasma. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 074014.	2.1	21
45	Relativistic effects on nonlinear lower hybrid oscillations in cold plasma. <i>Journal of Mathematical Physics</i> , 2011, 52, .	1.1	10
46	Nonlinear evolution of an arbitrary density perturbation in a cold homogeneous unmagnetized plasma. <i>Physics of Plasmas</i> , 2011, 18, 012301.	1.9	14
47	Phase mixing of relativistically intense waves in a cold homogeneous plasma. <i>Physical Review E</i> , 2009, 79, 026404.	2.1	34